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Title: JP1316367A2: LIQUID CRYSTAL SUBSTANCE HAVING HETEROCY

SKELETON

[♀]Country: JP Japan

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SInventor: SUZUKI GIICHI;

HAGIWARA TAKASHI; AIHARA YOSHIHIKO;

SHOWA SHELL SEKIYU KK

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Published / Filed: **Dec. 21, 1989** / March 27, 1989

Papplication JP1989000071776

Number: \$\text{\$\text{PIPC Code}:} \text{ \$\text{C07D 239/26; C09K 19/34; } \frac{G02F 1/13;}{}

Priority Number: March 28, 1988 JP1988000071816

NEW MATERIAL:A compound expressed by formula I (R1 and R2 are 1-20C alkyl; A and B are Ph, Cy, Ph-Cy or Cy-Ph or further A is Ph-Ph or Cy-Cy; Ph is formula V; Cy is formula VI; X is

fluoroalkyl; Y and Z are OCO, COO, OCH2 or CH2O).

EXAMPLE: 4'-(5-Octylpyrimidinyl-2)-phenyl 4-(1-

fluoromethylnonyloxy-carbonyl) benzoate.

USE: A chemically and photochemically stable liquid crystal substance, having great dielectric anisotropy, capable of providing a recognized liquid crystal phase assuming tristable state and exhibiting electroclinic effects and high-speed responsiveness with great spontaneous polarization and good orientation properties.

PREPARATION: 4-Benzyloxybenzonitrile and terephthalic acid are used as respective starting materials to provide compounds expressed by formulas II and III, which are then esterified to afford

the compound expressed by formula IV in formula I.

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Family: Show 2 known family members

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 References:

PDF	Pat nt	Pub.Dat	Inventor	Assignee	Title
E	US6267910	2001-07-31	Hayashi; Hitoshi	Nippon Soken, Inc.	Antiferroelectric liquid cr composition
28	US6239316	2001-05-29	Mine; Takakiyo	Mitsubishi Gas Chemical Company Inc	Optically active seconda alcohol and process for production thereof



2	<u>US6133469</u>	2000-10-17	Mine; Takakiyo	Mitsubishi Gas Chemical Company	Anti-ferroelectric liquid c
Æ	<u>US6129859</u>	2000-10-10	Hijikata; Yoshimasa	Nippon Soken, Inc.	Antiferroelectric liquid cr composition
Æ	<u>US6103517</u>	2000-08-15	Mine; Takakiyo	Mitsubishi Gas Chemical Company	Process for the production optically active alcohol and novel optically active alcoholes.
2	US6002042	1999-12-14	Mine; Takakiyo	Mitsubishi Gas Chemical Company, Inc.	Liquid crystal compounc
æ	US5976409	1999-11-02	Mineta; Hiroshi	Mitsubishi Gas Chemical Company, Inc.	Swallow-tail-shaped liqu crystal compound
Æ	<u>US5972242</u>	1999-10-26	Takigawa; Kenji	Denso Corporation	Smectic liquid crystal composition and liquid c display
	US5968413	1999-10-19	Mine; Takakiyo	Mitsubishi Gas Chemical Company, Inc.	Anti-ferroelectric liquid c compounds
<u> </u>	<u>US5955001</u>	1999-09-21	Takigawa; Kenji	Nippon Soken, Inc.	Antiferroelectric liquid cr composition and liquid c indicating element
22	US5942646	1999-08-24	Mine; Takakiyo	Mitsubishi Gas Chemical Company, Inc.	Optically active alcohol a process for the production thereof
A	US5723069	1998-03-03	Mineta; Hiroshi	Mitsubishi Gas Chemical Company, Inc.	Anti-ferroelectric liquid c compound and anti-ferro liquid crystal compositio
æ	US5716545	1998-02-10	Kikuchi; Katsuhide	Nippon Soken, Inc.	Antiferroelectric liquid cr composition
A	US5705094	1998-01-06	Takeuchi; Akira	Nippon Soken, Inc.	Antiferroelectric liquid cr composition and liquid c display element using th
*	US5700392	1997-12-23	Kikuchi; Katsuhide	Nippon Soken, Inc.	Antiferroelectric liquid cr composition
Æ	<u>US5676881</u>	1997-10-14	Takigawa; Kenji	Nippon Soken Inc.	Antiferroelectric liquid cr composition
æ.	<u>US5439612</u>	1995-08-08	Illian; Gerd	Hoechst Aktiengesellschaft	Cyclohexylphenylpyrimic process for their prepara and their use in liquid-cr mixtures
A	US5330678	1994-07-19	Okabe; Nobuhiro	Showa Shell Sekiyu Kabushiki Kaisha	Liquid crystal compounc
æ	<u>US5200521</u>	1993-04-06	Illian; Gerd	Hoechst Aktiengesellschaft	Cyclohexylphenylpyrimic process for their prepara and their use in liquid-cr mixtures

♥ Other Abstract Info: DERABS C90-040192 DERC90-040192